



SEQUENCE LISTING

<110> IMHOF, BEAT ALBET
AURRAND-LIONS, MICHEL

<120> VASCULAR ADHESION MOLECULES AND MODULATION OF THEIR
FUNCTION

<130> 11422/0264679

<140> 09/524,531

<141> 2000-03-13

<150> EP 99.200746.8

<151> 1999-03-11

<160> 21

<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

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<221> modified_base

<222> (6)

<223> a, t, c, g, other or unknown

<220>

<221> modified base

<222> (10)..(12)

<223> a, t, c, g, other or unknown

<400> 1

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<210> 2

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

<220>

<221> modified base

<222> (10)..(12)

<223> a, t, c, g, other or unknown

<400> 2

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<210> 3

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<212> DNA

<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: primer

<220>

<221> modified base

<222> (10)..(12)

<223> a, t, c, g, other or unknown

<400> 3

taytaytgyn nngcytcyaa

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<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 4

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18

<210> 5

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 5

cgacaggtgt cagataaca

19

<210> 6

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

<400> 6

caccctcctc actcgt

16

<210> 7

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer used
for detection of JAM-2 transcript

<400> 7

gactcacaga caagtgac

18

<210> 8

<211> 16

<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer used
for detection JAM-2 transcript

<400> 8
caccctcctc actcgt

<210> 9
<211> 25
<212> DNA
<213> Artificial Sequence



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<220>
<223> Description of Artificial Sequence: primer for
Hprt cDNA

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gttgataca ggccagactt tgttg

25

<210> 10
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer for
Hprt cDNA

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23

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<211> 1943
<212> DNA
<213> Mus musculus

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<210> 12
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 <212> DNA
 <213> Mus musculus

<400> 12						
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 <212> PRT
 <213> Mus musculus

<400> 13															
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			20					25						30	
Asn	Leu	Lys	Ser	Ser	Asn	Arg	Asn	Pro	Val	Val	His	Glu	Phe	Glu	Ser
		35					40					45			
Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	His	Ser	Gln	Thr	Ser	Asp	Pro	Arg
	50					55					60				
Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Gly	Gln	Thr	Thr	Tyr	Val	Tyr	Phe

65	70	75	80
Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Thr Asp Val Phe Gly	85	90	95
Lys Thr Ser Leu Arg Ile Trp Asn Val Thr Arg Ser Asp Ser Ala Ile	100	105	110
Tyr Arg Cys Glu Val Val Ala Leu Asn Asp Arg Lys Glu Val Asp Glu	115	120	125
Ile Thr Ile Glu Leu Ile Val Gln Val Lys Pro Val Thr Pro Val Cys	130	135	140
Arg Ile Pro Ala Ala Val Pro Val Gly Lys Thr Ala Thr Leu Gln Cys	145	150	160
Gln Glu Ser Glu Gly Tyr Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn	165	170	175
Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Gln Asn	180	185	190
Ser Ser Phe His Val Asn Ser Glu Thr Gly Thr Leu Val Phe Asn Ala	195	200	205
Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp	210	215	220
Ala Gly Ala Ala Arg Cys Glu Gly Gln Asp Met Glu Val Tyr Asp Leu	225	230	240
Asn Ile Ala Gly Ile Ile Gly Gly Val Leu Val Val Leu Ile Val Leu	245	250	255
Ala Val Ile Thr Met Gly Ile Cys Cys Ala Tyr Arg Arg Gly Cys Phe	260	265	270
Ile Ser Ser Lys Gln Asp Gly Glu Ser Tyr Lys Ser Pro Gly Lys His	275	280	285
Asp Gly Val Asn Tyr Ile Arg Thr Ser Glu Glu Gly Asp Phe Arg His	290	295	300
Lys Ser Ser Phe Val Ile	305	310	

<210> 14
 <211> 298
 <212> PRT
 <213> Mus musculus

<400> 14
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 35 40 45
 Leu Ala Cys Lys Thr Pro Lys Lys Thr Thr Ser Ser Arg Leu Glu Trp

50					55					60					
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Gln	Gly	Asp	Phe	Lys 85	Asp	Arg	Ala	Glu	Met 90	Ile	Asp	Phe	Asn	Ile 95	Arg
Ile	Lys	Asn	Val 100	Thr	Arg	Ser	Asp	Ala 105	Gly	Glu	Tyr	Arg	Cys 110	Glu	Val
Ser	Ala	Pro 115	Thr	Glu	Gln	Gly	Gln	Asn 120	Leu	Gln	Glu	Asp 125	Lys	Val	Met
Leu	Glu 130	Val	Leu	Val	Ala	Pro 135	Ala	Val	Pro	Ala	Cys 140	Glu	Val	Pro	Thr
Ser	Val	Met	Thr	Gly	Ser	Val	Val	Glu	Leu	Arg 155	Cys	Gln	Asp	Lys	Glu 160
Gly	Asn	Pro	Ala	Pro 165	Glu	Tyr	Ile	Trp	Phe 170	Lys	Asp	Gly	Thr	Ser	Leu 175
Leu	Gly	Asn	Pro 180	Lys	Gly	Gly	Thr	His 185	Asn	Asn	Ser	Ser	Tyr 190	Thr	Asn
Glu	His	Glu 195	Ser	Gly	Ile	Leu	Gln 200	Phe	Asn	Met	Ile	Ser 205	Lys	Met	Asp
Ser	Gly	Glu	Tyr	Tyr	Cys	Glu	Ala 215	Arg	Asn	Ser	Val 220	Gly	His	Arg	Arg
Cys	Pro	Gly	Lys	Arg	Met 230	Gln	Val	Asp	Val	Leu 235	Asn	Ile	Ser	Gly	Ile 240
Ile	Ala	Thr	Val	Val	Val	Val	Ala	Phe	Val 250	Ile	Ser	Val	Cys	Gly 255	Leu
Gly	Thr	Cys	Tyr 260	Ala	Gln	Arg	Lys	Gly 265	Tyr	Phe	Ser	Lys	Glu 270	Thr	Ser
Phe	Gln	Lys 275	Gly	Ser	Pro	Ala	Ser 280	Lys	Val	Thr	Thr	Met 285	Gly	Glu	Asn
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<210> 15
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 15
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 35 40 45
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg

50					55					60					
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Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu
			100					105					110		
Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu
		115					120					125			
Ile	Val	Ile	Glu	Leu	Thr	Val	Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys
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Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn
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Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn
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Ser	Ser	Phe	His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala
		195					200					205			
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Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	Tyr	Phe
			260					265					270		
Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	Gly	Lys	Pro
		275					280					285			
Asp	Gly	Val	Asn	Tyr	Ile	Arg	Thr	Asp	Glu	Glu	Gly	Asp	Phe	Arg	His
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305					310										

<210> 16
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 16
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35

40

45

Ala Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
50 55 60

Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr
65 70 75 80

Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly
85 90 95

Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr
100 105 110

Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys
115 120 125

Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met
130 135 140

Gln Val Asp Asp Leu Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val
145 150 155 160

Val Ala Leu Val Ile Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln
165 170 175

Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser
180 185 190

Ser Ser Lys Ala Thr Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys
195 200 205

Ser Phe Ile Ile
210

<210> 17

<211> 1296

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence
surrounding C-terminal cysteine of C2 domain
(endothelial cell line t-end)

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<221> MOD_RES
<222> (4)
<223> Any amino acid

<400> 18
Tyr Arg Cys Xaa Ala Ser
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<210> 19
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<212> PRT
<213> Artificial Sequence

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surrounding the C-terminal cysteine of C2 domain
(endothelial cell line t-end)

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<210> 20
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surrounding the C-terminal cysteine of C2 domain
(endothelial cell line t-end)

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<222> (4)
<223> Any amino acid

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Tyr Tyr Cys Xaa Ala Ser
1 5

<210> 21
<211> 300
<212> PRT

<213> Mus musculus

<400> 21

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35 40 45
Cys Thr Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Val
50 55 60
Gln Gly Ser Thr Thr Ala Leu Val Cys Tyr Asn Ser Gln Ile Thr Ala
65 70 75 80
Pro Tyr Ala Asp Arg Val Thr Phe Ser Ser Glu Gly Ile Thr Phe Ser
85 90 95
Ser Val Thr Arg Lys Asp Asn Gly Glu Tyr Thr Cys Met Val Ser Glu
100 105 110
Glu Gly Gly Gln Asn Tyr Gly Glu Val Ser Ile His Leu Thr Val Leu
115 120 125
Val Pro Pro Ser Lys Pro Thr Ile Ser Val Pro Ser Ser Val Thr Ile
130 135 140
Gly Asn Arg Ala Val Leu Thr Cys Ser Glu His Asp Gly Ser Pro Pro
145 150 155 160
Ser Glu Tyr Ser Trp Phe Lys Asp Gly Ile Ser Met Leu Thr Ala Asp
165 170 175
Ala Lys Lys Thr Arg Ala Phe His Asn Ser Ser Phe Thr Ile Asp Pro
180 185 190
Lys Ser Gly Asp Leu Tyr Phe Asp Phe Val Thr Ala Phe Asp Ser Gly
195 200 205
Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser
210 215 220
Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val
225 230 235 240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly
245 250 255
Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly
260 265 270
Thr Ala Pro Gly Lys Lys Val Ile Tyr Ser Gln Pro Ser Thr Arg Ser
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Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
290 295 300

<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence
surrounding the C-terminal cysteine of C2 domain
(endothelial cell line t-end)

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<221> MOD_RES

<222> (2)

<223> Arg, Gln, Tyr, Ser

<220>

<221> MOD_RES

<222> (4)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (8)

<223> Any amino acid

<400> 22

Tyr Xaa Cys Xaa Ala Ser Asn Xaa Gly
1 5